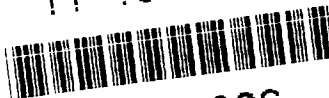


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Our Ref.: 2018-640

Commissioner of Patents and Trademarks  
Box Assignment, Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Akitoshi MIZUTANI Keiichi YASUDA  
Kenji TAKEDA Kimio UCHIDA  
Masao TOKUNAGA Hiroshi TAKEYAMA  
Tsutomu NAKAMURA Tetsuo HARIU

2. Name and address of receiving party(ies):  
Name: NIPPON SOKEN, INC.  
Internal Address:  
Street Address: 14, Iwaya, Shimohasumi-cho

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:  
☒ Assignment ☐ Merger  
☐ Security Assignment ☐ Change of Name  
☐ Other

City: Nishio-city, Aichi-pref.  
State/Country: Japan  
Zip: 445-0012

Execution Date: October 25, 31 and November 1, 2002

Additional name/s & address/es attached? ☒ Yes ☐ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: October 25, 31 And November 1, 2002

A. Patent Application No(s).

(1) Unknown  
(2)  
(3)

B. Patent No(s).

(1)  
(2)  
(3)

Additional numbers attached ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Larry S. Nixon

Internal Address:

Street Address: Nixon & Vanderhye P.C.  
1100 North Glebe Road  
8<sup>th</sup> Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

☒ Enclosed  
☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

DO NOT USE THIS SPACE

9. Statements and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Larry S. Nixon

Name of Person Signing  
Reg. No. 25,640

Signature

November 13, 2002

Date

Total number of pages including original cover sheet, attachments, and document: [4]

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PATENT  
REEL: 013489 FRAME: 0731

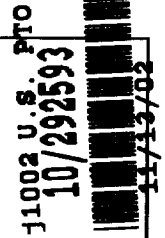
RECORDATION FORM COVER SHEET

**PATENTS ONLY**

Our Ref: 2018-640

Commissioner of Patents and Trademarks  
Box Assignment, Washington, D.C. 20231

1. Name of conveying party(ies):



2. Name: DENSO CORPORATION

Street Address: 1-1 Showa-cho  
City: Kariya-city, Aichi-pref.  
State: Japan  
Zip: 448-8661

4. Application number(s) or patent number(s):

A. Patent Application No(s).

B. Patent No(s).

(4)  
(5)  
(6)  
(7)  
(8)  
(9)

(4)  
(5)  
(6)  
(7)  
(8)  
(9)

**ASSIGNMENT OF U.S. PATENT APPLICATION**

(Inventors)	<b>Akitoshi MIZUTANI</b>	<b>Kimio UCHIDA</b>
	<b>Kenji TAKEDA</b>	<b>Hiroshi TAKEYAMA</b>
	<b>Masao TOKUNAGA</b>	<b>Tetsuo HARIU</b>
	<b>Tsutomu NAKAMURA</b>	
	<b>Keiichi YASUDA</b>	

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee)	<b>NIPPON SOKEN, INC.</b>	a corporation of <b>Japan</b>
(Address)	<b>14, Iwaya, Shimohasumi-cho, Nishio-city, Aichi-pref., 445-0012 Japan</b>	
(Assignee)	<b>DENSO CORPORATION</b>	a corporation of <b>Japan</b>
(Address)	<b>1-1 Showa-cho, Kariya-city, Aichi-pref., 448-8661 Japan</b>	

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as  
(Title) **DISPLACEMENT SENSOR**

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on \_\_\_\_\_ or has already filed U.S. application Serial No. \_\_\_\_\_, on \_\_\_\_\_.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date October 25, 2002 Signature of inventor

Akitoshi Mizutani  
**Akitoshi MIZUTANI**

Date October 25, 2002 Signature of inventor

Kenji Takeda  
**Kenji TAKEDA**

Date October 25, 2002 Signature of inventor

Masao Tokunaga

**Masao TOKUNAGA**

Date October 25, 2002 Signature of inventor

Tsutomu Nakamura

**Tsutomu NAKAMURA**

Date November 1, 2002 Signature of inventor

Keiichi Yasuda

**Keiichi YASUDA**

Date November 1, 2002 Signature of inventor

Kimio Uchida

**Kimio UCHIDA**

Date October 31, 2002 Signature of inventor

Hiroshi Takeyama

**Hiroshi TAKEYAMA**

Date November 1, 2002 Signature of inventor

Tetsuo Haniu

**Tetsuo HARIU**

Date October 25, 2002 Witnessed by:

Fushikazu Uda

Date October 25, 2002 Witnessed by:

Fushikazu Uda

Date October 25, 2002 Witnessed by:

Fushikazu Uda

Date October 25, 2002 Witnessed by:

Fushikazu Uda

Date November 1, 2002 Witnessed by:

Osamu Terakura

Date November 1, 2002 Witnessed by:

Osamu Terakura

Date October 31, 2002 Witnessed by:

Osamu Terakura

Date November 1, 2002 Witnessed by:

Osamu Terakura